

LAVA SINKING IN PLAN SPLENDID VOLCANO'S CRATER

Professor Jaggar Tells Fascinating Story of Observations at Pit.

LIGHTS FLICKER AND FLASH

Seismograph Observatory Is Progressing — Change Site of Station.

(From Sunday's Advertiser.)

In an interesting report from the Technology Station on the Volcano of Halemauau, Professor T. A. Jaggar, Jr., director, declares that the lava of the Volcano is surely if slowly subsiding from its former level. "The cove," as he expresses it, "give evidence of such subsidence by freezing over." In his research work the professor again brought into prominence the influence of the moon on volcanoes. For instance, in the table of measurements taken from the level of the station to the surface of the sinking lava, there is a "lump," so to speak, that indicates where the lava paused for a time in its sinking. At half-past eight o'clock Wednesday night the distance from the station to the lava was 304 feet. At eleven o'clock Thursday morning the measurement showed that the lava had remained stationary. This pause had been preceded by a period during which the lava fall had slackened until it was almost imperceptible.

Lights Appear.

The professor makes a special note of the fact that a strange light has appeared about four-sevenths of the way up the western wall of the crater. At times it becomes a distinct flame of yellow-white color. On the night of January 24, shortly after eight o'clock another light was observed by the professor. This shot suddenly into being from the black eastern edge, almost under the station, and burned for forty-five seconds like a "jet of illuminating gas."

The construction of a place for the seismographs and the rebuilding of Mr. Perret's hut is progressing satisfactorily, says the professor. Francis B. Dodge of Honolulu has been appointed as assistant in the work, and will aid in the removal of the station from its present site to the opposite side of the pit.

The full report follows:

"Technology Station, January 25, 1912.
"During the past week the lava of Halemauau has continued slowly falling and the cove gives evidence of such subsidence by freezing over. A crust forms which after a time loses support from beneath, cracks into slabs, and the slabs sink into the lava. The liquid lava wells up along the cracks and appears as though it were 'isling,' the phenomena being due to the fact that the frozen basalt is heavier than the liquid, and the broken cakes of crust sink as soon as they are free from the continuous arch or roof which they had previously made across a cove.

Figures of Fall.

"The level of the surface of the liquid lava below the Technology Station was as follows:
"5 p.m. Thursday, January 18, 257 ft.
"9 p.m. Saturday, January 20, 276 ft.
"3 p.m. Sunday, January 21, 276 ft.
"9 p.m. Tuesday, January 23, 297 ft.
"8:30 p.m., Wednesday, January 24, 304 ft.
"11 a.m. Thursday, January 25, 304 ft.
"The marked lag in the sinking, with some temporary rising and overflow of banks, which began Friday, January 19, coincided with the new moon, i.e., the conjunction of sun and moon in tidal stress.

"At a high point in the western wall of the pit, about four-sevenths of the way up, a light has appeared at night in the midst of fumes rising from a hole. This light at times is a distinct flame of yellow-white color. The occurrence of flames due to burning gas about the walls of Halemauau has been characteristic of this sinking phase of activity. On the night of January 24 at 8:30 p.m. a most remarkable flame suddenly blazed out on the eastern black ledge almost under the Technology Station, and burned white like a jet of illuminating gas for 45 seconds at an elevation 150 feet above the pool. Possibly the combustible was ordinary 'water-gas,' carbon monoxide.

Surface Movements.

"The streaming surface movements of the lava have been various. On January 20 the streaming was toward fountains N.E., N. and S. On the 21st it was largely eastward, with insuencing streams toward 'Old Faithful,' the south promontory, and the south-west cove. On January 24 it was rather westward, and on the 25th it was strongly eastward again. The two promontories N. and S.W. which were islands on January 17 disappeared by sinking, January 20 and January 23.

"The interior of the caldera at the time of writing (January 25, 1912) is most chaotic, with five coves in the boiling pool, vast tumblers of black ledge in terraces, pinnacled promontories, and the lava orange to cherry red in different lights, covered in daylight with a black skin.

Gas Increasing.

"With the subsidence of the lava the emission of gas increases and the fountains throw blobs of melt to a great height with a strong hissing noise. 'Old Faithful' at times throws droplets fifty feet into the air. I have been much impressed during the recent dry spell—it had not rained at Kilanua for a month—with the accuracy of Doctor Brigham's view that the Halemauau craters are not water-vapor at all. For, day after day, there has been no steam-cloud over the crater. When a small

Alumni of College Will Shortly Commence Campaign For \$50,000.

(From Sunday's Advertiser.)

Planning a gymnasium that will be a worthy part of the pioneer collegiate institution west of the Rockies, the alumni of Oahu College shortly commence a campaign to raise \$50,000 to build it and another \$50,000 to endow it. The matter has been under discussion since last fall, and several conferences have been held in which the alumni, the president and trustees have taken part.

The alumni committee in charge of the campaign consists of F. C. Atherton, chairman; Willard E. Brown, John L. Fleming, W. W. Chamberlain, Harold G. Dillingham and Frederick D. Lowrie. Three of the trustees have been appointed as a committee to act in co-operation.

The first step in the campaign will be along educational lines, with the view of showing the people what the college has accomplished and what it is doing. With this end in view an alumni magazine will be published under alumni editorship for the next six or seven months.

The gymnasium planned is to be unlike other models. It is to be largely an open air one and may also be used for auditorium purposes, seating 1000 or 1200 persons. One of the chief motives of the campaign is the desire of the college to have trained physical instructors to build up physically those students, and particularly the girls, who do not go in for regular athletics.

"I regard the physical education of girls to be one of our greatest needs at present," said President Griffiths, yesterday.

The site of the new gymnasium will be just makai of Alexander Field and a new swimming tank will be constructed directly beside it. Other features will be lockers, showers and the standard accessories of such an institution.

It is also planned to provide facilities for serving cheaply hot midday lunches to the day students in the gymnasium which will, naturally, not be in service along its natural lines at that time.

BURGLAR JUST MISSED HAUL OF \$3000.00

WAILUKU, Maui, January 26.—Some time between Tuesday evening and Wednesday morning an attempt was made to burglarize the Aoka Hotel of Lahaina. Tuesday, a Japanese drummer from Honolulu put up at the hotel, which was nothing unusual, excepting the drummer had collected and had in his possession over \$3000 belonging to the Honolulu business house he represented. While in Lahaina he left the money in Aoka's bureau for safe keeping, but, fortunately for the drummer's employer, he took the Claudine that very evening and returned to Honolulu with the cash.

Wednesday morning, when Aoka went to the bureau where he kept his valuables, he found someone had been there and had ransacked it, taking \$18.50 belonging to the hotel keeper. The burglar had entered by a window, leaving muddy footprints on the floor, and went through three rooms before finally getting at the wooden wardrobe or bureau where the money was. Not finding the \$3000 he was after, he took all the coin in sight, \$18.50, and continued his hunt, going into two other bedrooms upstairs and searching them.

The police hope to land the burglar very soon as the indications are the work was that of a professional and the professionals in that line of activity at large are all well known to the police.

Promotion for Walsh.

William Walsh of Punahoa has been appointed assistant superintendent of the Kahului Railway Company and it is reported that J. N. S. Williams, the superintendent, will devote more of his time to the shipping business of the firm of Alexander & Baldwin, both in Kahului and in Honolulu, leaving the management of the railway business almost wholly in the hands of the assistant superintendent.

An umbrella-shaped cloud appears, high over the hot-air column from the pit, it is the atmospheric vapor sucked in from the side which makes it.

"On still nights the steam from the vents which surround the pit, some hundreds of feet away from it, are sucked over the rim and flow downwards into Halemauau, to be mixed with the central gas-column. These outlying vents, such as 'the Devil's Kitchen,' are rain cisterns, but the gases from the molten lava are dry. When they are brownish or whitish, it is solid fumes particles which show, and this matter is not evanescent, but floats away to leeward for miles. The particles are probably chlorides, as suggested by Bran.

Rebuilding Hut.

"Progress has been made in providing for an observatory for the seismographs and for rebuilding Mr. Perret's hut. Hilo was asked to build the observatory, and has already subscribed three-quarters of the amount needed for a small frame building. The response was generous and immediate, and received the sanction of the Hilo Board of Trade. Francis B. Dodge of Honolulu has been appointed assistant at the station. The hut at Halemauau will be removed to a place on the opposite side of the pit, and will be fenced, strengthened and improved.

"Very respectfully,

"T. A. JAGGAR, Jr.,
"Director."

HOCH DER KAISER GERMAN'S SALUTE

Toast Called in Unison With the Booming Guns on Pacific Fleet.

"Hoch der Kaiser!" That toast called by scores of voices at the office of the German consulate yesterday noon, and the booming of the guns on board the vessels of the Pacific fleet were part—and a small part—of the ceremonies by which Honolulu paid her respects to the birthday of the great German emperor.

The salute by the ships of the American Pacific fleet in honor of the birthday of Emperor William was deeply appreciated by Consul W. Pfothner, and when Rear Admiral Thomas called to pay his respects, he was overwhelmed with the thanks of the emperor's representative. The German colony, generally, regarded the salute was one of the finest birthday gifts which Honolulu offered to the emperor.

Exactly at noon when the flagship fired the first of her twenty-one guns the bunting for dressing the ship was broken out, and immediately the guns on the other cruisers began their long salute. The guns banged indiscriminately, giving the semblance of battle, for soon the ships were enveloped in a heavy mantle of powder smoke.

Reception Begins.

At eleven-thirty o'clock the rooms of the consulate in the Hackfeld building were thrown open and Consul Pfothner, assisted by Dr. R. Isenberg and Georg Rodiek, began the reception of visitors. In the room were many evidences of the honor in which Emperor William is held. There are photographs of him in uniform, some of the army and some of the navy, one picture showing him upon the bridge of a German cruiser. Two of the emperor's photographs were wreathed with lilac leaves. Among the first to greet the consul was P. C. Jones who announced that yesterday made his fifty-fourth call at the German consulate, not a year having been missed, when the birthday of an emperor or king was to be celebrated.

Governor Calls.

About noon Governor Peary, accompanied by his staff, called, and soon the rooms were filled with officials of the United States, territorial and county governments; with army, navy and marine corps officers; members of the consular corps; and members of business professions. The navy was represented by Rear Admiral Thomas, Rear Admiral Southernland and Rear Admiral Cowles and their respective staffs. The army representatives were Brigadier General Macomb and staff, and the marine corps by Major Neville and staff; the national guard by Colonel Jones; all officers wearing white uniforms and side arms. Toasts to the Kaiser were frequent, and a buffet luncheon was served. The Hawaiian band, according to old custom, played during the entire reception which lasted until one o'clock.

The stream of guests never lagged. Following the toasts and the luncheon the guests inscribed their names in the "birthday book." Among those present were Governor Peary, Judge S. B. Dole, Mayor J. J. Fern, Collector of Customs E. R. Stackable, Collector of Internal Revenue C. A. Cottrill, Captain Fred Miller, J. Morton Riggs, F. M. Falke, Martin Grune, Dr. George B. Cooper, William Walters, George R. Humphreys, Frank Armstrong, Ralph Lyons, Dr. J. S. Pratt, Judge Monarrat, Charles Rose, E. M. Campbell, Sheriff William Jarrett, U. S. Marshall E. R. Hendry, C. A. Rodiek, R. C. Stackable, John Lane, Sr. Ignacio de Arano, A. de Souza Canavarro, Japanese Consul Uyeno, Dr. A. Marquez, P. A. Schaefer, H. M. von Holt, C. Hedemann, W. Lanz, H. Foeke, Robert F. Lange, W. O. Smith, Walter Dillingham, Attorney General Lindsay, Koo Kim, Julius Aech, D. A. Sherwood, Dr. Carl Ramus, Immigration Inspector Halsey, A. H. Dondero, Dr. R. W. Anderson, T. Olive Davies, C. C. Bittling, Alex. McIntosh, E. A. Berndt, A. N. Campbell, George Guild, H. B. Giffard, P. W. Klebahn, Julius Bayer.

The navy and army people present at the reception included Rear Admiral Thomas, Rear Admiral Southernland, Rear Admiral Cowles, Brigadier General Macomb, Captain Harlow of the California, Captain Halket of the West Virginia, Captain Bennett of the South Dakota, Captain Gill of the Colorado, Captain Douglas of the Glacier, Commander Terhune, chief of staff; Lieutenant Commander Leahy, Lieutenant Commander Major, Major Hill, U. S. M. C.; Major Neville, U. S. M. C.; Major Campbell, Major Timberlake, Major Wooten, Captain Carter, Captain Marx, Captain Case, Lieutenant Beaupreard, Lieutenant Davy, Paymaster Stevens, Lieutenant Utley and Lieutenant Andrews.

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HUGE CAKE FOR SHIP'S BIRTHDAY

Monster Confection Prepared in Honor of the Cruiser South Dakota—High Jinks.

(From Sunday's Advertiser.)

Who would not be a battleship when he could have such birthday parties as the officers of the cruiser South Dakota gave their ship—and incidentally about five hundred guests—last night? Everyone at all worth while from a naval or military point of view was there—at least everybody not on duty. In addition there were several hundred of the elite of Honolulu.

Lieutenant Commander D. W. Wurtzbaugh was responsible for the decoration—that is he was chairman of the committee that had that work in charge and the officers certainly achieved a triumph. Not a single one of the many features they adopted to make their ship's birthday party distinctive was hackneyed. All were new and many very beautiful.

Possible the most attractive was the design adopted for decorating the ward room. The long wardroom table, that runs from one side of the big ship to the other was turned for the time being into a model of the ship's main deck. There were the gray painted turrets with their guns sticking pugnaconally fore and aft, and there were the two masts, the basket mast and the aftermast, with its maze of Ardois electric signal lights; there was the bridge, perfect in every detail from the side lights to the windows of the wheelhouse and chartroom. But piled high on the counterfeited deck were things never seen on the real decks of a man-o'-war. In the massive silver service of the ship, in the special chinaware of the mess were piled the refreshments for the evening. At least some of them were there. Back in the stateroom, or junior officer's quarters, arrangements had been made for the liquid part of the entertainment—there for no battleship's birthday party should be dry.

Reception Committee.

The reception committee consisted of Captain F. M. Bennett, Lieutenant Commander C. Wells, Lieutenant J. J. Hannigan, Lieutenant A. S. Rees, Midshipman J. H. Taylor, and Midshipman G. L. Weiler. They met their incoming guests at the gangway, under the awnings stretched above the quarter-deck, turned for the nonce into a ballroom of rare beauty.

It was a rare wonderful sight, that ballroom. Over it all looking grim enough despite the glow of electric lights loomed the huge turret. But, to take the gloom off, there on the turret loomed sat a figure. It looked weird enough at that. It was a diver's suit, with shoes and gloves complete, including the helmet with the round glass eyes lighted from within. From the hands trailed two long streamers of flowers that led to the muzzles of the great, wicked looking guns. This outer figure was acting as coachman to the dogs of war, and he made a pretty driver.

The base of the turret was almost hidden under flowers and a circle of rifles, with bayonets affixed, glittered and glimmered in the light of the lanterns.

The Huge Cake.

Just astern the turret was a fountain, sparkling in the varied colored beams of light. And astern of that again was the cake. Such a monster cake. Nobody ever saw its like. It was feet and feet across and a foot and a half high, and the icing and the decorations and—but what is the use. If you were there, you still treasure memories of that cake and will for many a long day. If you were not—it would profit you nothing to be told about it.

But the big cake was not the only one the South Dakota received on her birthday. There was a tiny little one from Admiral and Mrs. Thomas—with four tiny candles stuck at leering angles in its white frosting. Beside this were the trophies the ship has won during the four years of her life. One of these was the victor's badge, won in a hotly contested boat race in the harbor of Callao, Peru. There were other silver cups and one pretty model of a racing cutter.

The South Dakota was commissioned for service four years ago yesterday at Mare Island